

KOWALSKA, Maria; GLINSKA, Danuta; WALASZEWSKA, Barbara

Analysis of the cases treated in the Outpatient Unit for Peripheral Vascular Diseases of the 1st Clinic for Internal Diseases of the Academy of Medicine in Warsaw. Polski tygod. lek. 14 no.22:1022-1025 1 June 59.

1. (Kierownik kliniki: prof. dr nauk med. A. Biernacki).
(VASCULAR DISEASES, PERIPHERAL, statist.
clin. statist. (Pol))

KOWALSKA, Maria

Treatment of arterial diseases with long-acting padutin. Polski tygod.
lek. 15 no.35:1351-1352 29 Ag '60.

1. Z Poradni Chorob Naczyn Obwodowych przy I Klinice Chorob
Wewnętrznych A.M. w Warszawie; kierownik; prof. dr nauk med.
A.Biernacki.

(ARTERIES dis.)

(KALLIKREIN ther.)

SOLTYSIK, S.; JAWORSKA, K.; KOWALSKA, M.; RADOM, S.

Cardiac responses to simple acoustic stimuli in dogs. Acta Biol
Exp 21:235-252 '61.

1. Laboratory of Physiology of Nervous System, Psychoneurological
Institute, Pruszkow, and Department of Neurophysiology, Nencki
Institute of Experimental Biology, Warsaw.
(HEART physiol) (REFLEX) (SOUND)

JAWORSKA, K.; KOWALSKA, M.; SOLTYSIK, S.

Studies on the aversive classical conditioning. 1. Acquisition and differentiation of motor and cardiac conditioned classical defensive reflexes in dog. Acta biol. exp. 22 no.2:23-34 '62.

1. Laboratory of Physiology of the Nervous System, Institute of Psychoneurology, Pruszkow, Poland.

(REFLEX, CONDITIONED)

POLAND

KOWALSKA, Maria, Consultation Unit for Diseases of the Peripheral Vessels (Poradnia Naczyn Obwodowych) of the First Clinic of Internal Diseases (I Klinika Chorob Wewnetrznych) (Director: Prof. Dr. med. sci. A. BIERNACKI), AM [Akademia Medyczna, Medical Academy] in Warsaw

"Long-range Effects of Treatment of Diseases of the Peripheral Vessels with Butyl-Nor-Sympatol (Vasculat)."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 28, 8 Jul 63, pp 1029-1031

Abstract: [Author's English summary modified] Author reports results of a two-year study on the effect of Vasculat in the treatment of patients with arteriosclerosis obliterans, endarteritis obliterans, Reynaud disease, and other various diseases of the veins, neurosis, and others. There was only one case of exacerbation in the 30 patients studied, and both immediate and long-range effects proved highly satisfactory, particularly for the cases of Reynaud disease, and arteriosclerosis and endoarteritis obliterans. 13 refs: one each Polish and French, the others in German.

1/1

KOWALSKA, Maria

Remote results of the treatment of peripheral vascular diseases with butyl-nor-sympathol (vasculat). Pol. tyg. lek. 18 no.28:1029-1031 8 J1 '63.

1. Z Poradni Chorob Naczyn Obwodowych przy I Klinice Chorob Wewnętrznych AM w Warszawie; kierownik kliniki: prof. dr nauk med. A. Biernacki.

(BAMETHAN) (VASCULAR DISEASES)

(ARTERIOSCLEROSIS) (THROMBOANGIITIS OBLITERANS)

(RAYNAUD'S DISEASE)

KOWALSKA, Maria

The results of electromyographic studies of obliterating arterial diseases. Pol. arch. med. wewnet. 34 no.9:1201-1212 '64

1. Z I Kliniki Chorob Wewnetrznych Akademii Medycznej w Warszawie (p.o. kierownik: prof. dr. med. T.Orlowski).

KOWALSKA, Maria

Outpatient treatment of peripheral vascular diseases with Hexopal
(mesoinositol hexanicotinate). Pol. tyg. lek. 20 no.2:59-60
11 Ja '65

1. Z Poradni Chorob Naczyn Obwodowych przy Panstwowym Szpitalu
Klinicznym Nr. 1 w Warszawie.

KOWALSKA, M.

~~Skualoids~~ in *Ptelea trifoliata* L. leaves and roots. Acta Pol.
pi rm. 20 no.6:458 '63.

KOWALSKA, Maria

Results of electromyographic studies in obliterating diseases of the arteries. Acta med. Pol. 6 no.2:185-197 '65.

1. 1st Clinic of Internal Medicine, Medical Academy, Warsaw (Director: Prof. Dr. T. Orłowski).

KOWALSKA, S.

Responsible work of the instructor. p. 5.

ROLNIK SPOKDZIELCA. (Centrala Rolniczej Spolkzielni "Samopomoc Chlopska")
Warszawa, Poland. Vol. 8, no. 42, Oct. 1955.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

KOWALSKA, S.

KOWALSKA, S. Summing up did not explain anything. p. 8, Vol. 8, no. 46.
Nov. 1955. ROLNIK SPOLDZIELCA. Warszawa, Poland.

SOURCE: East European Accessions List (EEAL) LC Vol. 5, No. 6, June 1956.

KOWALSKA, S.

KOWALSKA, S. Colleagues from the General Consumers Cooperative help
Osieczna. p. 8.

Vol. 8, No. 48, Nov. 1955

ROLNIK SPOLDZIEICA

A GRICULTURE

Warszawa, Poland

So: East European Accession, Vol. 5, No. 5, May 1956

KOWALSKA, S.

KOWALSKA, S. This is only the beginning. p. 2.

Vol. 8, No. 49, Dec. 1955

RODNIK SPOLDZIEICA

Agriculture

Warszawa, Poland

So: East European Accession, Vol. 5, No. 5, May 1956

KOWALSKA, S.

KOWALSKA, S. Before the 2d Congress in Jedlnia. p. 2.

Vol. 9, no. 6, Feb. 1956

ROLNIK SPOLDZIELCA

AGRICULTURE

Poland

So: East European Accession, Vol. 6, No. 5, May 1957

JAWORSKA, Halina; HEIMRATH, Zofia: KOWALSKA, Zofia

Leukemia in infants. *Pediat.polska* 34 no.12:1537-1545 D '59.

1. Z II Kliniki Pediatrycznej A.M. we Wroclawiu. Kierownik:
prof.dr med. M. Wierzbowska.

(LEUKEMIA in infancy & childhood)

KOWALSKA, Zofia

In intergeneric crossbreed of the brown bear, *Ursus arctos* L., and the polar bear, *Thalarctos maritimus* (Phipps). *Przegl zoolog* 6 no.3:230-231 '62.

1. Ogród Zoologiczny, Łódź.

BLAWAT, Franciszek; ZAWISTOWSKI, Stanislaw; KOWALSKA, Zyta.

Cytochemical studies of vaccinia-virus-infected cells.

I. Activity of some enzymes in vaccinia-virus-infected FL cells of the human amnion. Bull. inst. mar.med. Gdanak 15 no.1:5-13 '64

Cytochemical studies on the activity of succinic dehydrogenase in poliovirus-infected HeLa and FL cells. Ibid.:15-21

1. From the Institute of Marine Medicine in Gdansk and the Department of Histology and Embryology, Medical Academy in Gdansk.

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ELAWAT, Franciszek; KOWALSKA, Zyta

Investigations in vitro on the influence of some amoebae on survival of virus poliomyelitis. Bull. inst.mar.med.Gdansk 14 no.1:15-24 '63

1. From the Institute of Marine Medicine in Gdansk.

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Laboratory diagnosis of smallpox at the Institute of Marine Medicine in Gdansk during the 1963 epidemic. Bull. inst.mar. med. Gdansk 15 no.1:23-28 '64.

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Cytochemical studies of vaccinia-virus-infected cells. II. Activity of some enzymes in vaccinia-virus-infected cultures of mouse L fibroblasts, Clone 929. Bull. Inst. Mar. Med. Gdansk 15 no.3:125-129 '64

1. From the Institute of Marine Medicine in Gdansk, and from the Department of Histology and Embryology, Medical Academy of Gdansk.

BLAWAT, Franciszek; ZAWISTOWSKI, Stanislaw; KOWALSKA, Zyta; TOWIANSKA,
Hanna

Cytochemical studies of vaccinia-virus-infected cells. III. Further studies on the activity of oxidative enzymes in vaccinia-virus-infected cultures of FL and L cells. Bull. inst. mar. med. Gdansk 16 no.1:7-20 '65.

1. From the Institute of Marine Medicine in Gdansk and from the Department of Histology and Embryology, the Medical Academy in Gdansk.

BLAWAT, Franciszek; ZAWISTOWSKI, Stanislaw; KOWALSKA, Zyta; TOWIANSKA, Anna

Cytochemical studies of vaccinia-virus -infected cells. Pt.4.
Bull. Inst. Mar. Med. Gdansk 16 no.3/4:139-146 '65.

1. From the Institute of Marine Medicine in Gdansk and from
the Department of Histology and Embryology, the Medical
Academy in Gdansk

KOWALSKA, Z.

The greenfinch *Chloris chloris* L. and its breeding in the Lodz
Zoological Garden. *Wszeczwiat* no.12:316-317 D '62.

KOWALSKA- GOLAB, Halina; DUCIAK, Mieczysław

Endometriosis of the small intestine. Pol. przeł. chir. 36
no.10:1221-1223 0 '64

I. Z I Kliniki Położnictwa i Chorob Kobietych Śląskiej Akademii
Medycznej w Zabrze (Kierownik: prof. dr. M. Glowinski) i z
Zakładu Anatomii Patologicznej Śląskiej Akademii Medycznej w
Zabrze (Kierownik: prof. dr. W. Niepolomski).

KOWALSKA-KULESZA, Krystyna

On the behavior of the bacterial flora of the tracheobronchial tree in Laryngectomized subjects. Otolaryng. Pol. 18 no.4: 525-531 '64

1. Z Kliniki Otolaryngologicznej Akademii Medycznej w Poznaniu (Kierownik Kliniki: prof. dr. A. Zakrzewski).

KOWALSKA-KULESZA, Krystyna

Besnier-Boeck-Schaumann' disease. Otolaryng. Pol. 19 no.3:
373-377 '65.

1. Z Kliniki Otolaryngologicznej AM w Poznaniu (Kierownik
Kliniki: prof. dr. A. Zakrzewski).

KOWALSKI, A.

KOWALSKI, A. The repair of the Paniewo lock on the Augustow Canal. p. 401.
Vol. 16, no. 9, Sept. 1956. GOSPODARKA WODNA. Warszawa, Poland.

SOURCE: East European Accessions List (TEAL), Vol. 6, no. 4--April 1957

KOWALSKI, A.

Preventive safety of the insulation of rotary engines in Lower Silesia. Pt. 1. (To be contd.) p. 71.

(ENERGETYKA. Vol. 11, No. 2, Mar./Apr. 1957. Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 10, October 1957. Uncl.

KOWALSKI, A.

A new type of the T301 theodolite produced by the Polish Optical Plants. p. 200

POMIARY, AUTOMATYKA, KONTROLA. (Mazelna Organizacja Techniczna)
Warszawa, Poland
Vol. 5, no. 5, May 1959

Monthly list of East European Accessions (EEAI) LC Vol. 8, no. 9
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Uncl.

KOWALSKI, A.

"Economic effects of applied planning in a modern establishment." p. 190 (CIENT,
WAFNO, GIPS, Vol. 8, no. 9, Sept. 1952, Krakow, Poland)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress
August, 1953, Uncl.

KOWALSKI, A.

"Gravity ventilation in multistoried apartment buildings" (P. 75). PRZEGLAD BUDOWLANY
(Naczelna Organizacja Techniczna i Polski Związek Inżynierów i Techników Budownictwa)
Warszawa, Vol. 26, no. 3, Mar. 1954.

SO: East European Accessions List, Vol 3, No. 8, Aug 1954.

KOWALSKI, Alfred, mgr inz.

Damage of steam superheater collectors. Gosp paliw 11 no.7:
268-271 J1 '63.

KOWALSKI, A.

"Application of metal spraying in the milling industry." p. 29.
(GOSPODARKA ZBOZOWA Vol. 6. No. 1. Jan. 1955. Warszawa, Poland)

SO: Monthly List of East European Accessions. (EEAL). LC. Vol. 4. No. 4.
April 1955. Uncl.

KOWALSKI, A.

KOWALSKI, A.

A scheme for grinding coarse flour in five operations, p. 28. (GOSPODARKA ZBOZWA, Warszawa, Vol. 6, no. 3, Mar. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, Jan. 1955, Uncl.

HOWALSKI, A.

Individual and exchange mailing. p. 29.

WYKONAWCZA LECZONA, Warszawa, Vol. 6, no. 6, June 1955.

SO: Monthly List of East European Accessions, (ZAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

KOWALSKI, A.

The individual flour mills, a reservoir for supplying the nonagricultural population.

p. 29
Vol. 6, no. 7, July 1955
GOSPODARKA ZBOZOWA

Warszawa

AGRICULTURE

SO: Monthly List of East European Accessions (EEAL) , IC, Vol. 5, no. 2
Feb. 1956

KOWALSKI, A.

Local Milling. P. 19

Vol. 6, No. 9, September 1955

SOURCE: East European Accessions List (EEAL) LC , Vol. 5, No. 3, March 1956

KOWALSKI, A.

The struggle against the flour beetle by mechanical means. p. 29.
Vol. 6, no. 12, Dec. 1955 Warszawa GOSPODARKA ZASOZOWA

SOURCE: East European Accession List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956

KOWALSKI, A

Hydrothermal processing of buckwheat. p. 14. GOSPODARKA
ZBOZOWA. Vol. 7, No. 4, Apr. 1956. Warszawa.

East European Accessions List (LEAL) Library of Congress
Vol. 5, No. 11, August 1956.

KOWALSKI, A.

Tasks of the individually owned flour mills in the Five-Year Plan.
p. 9. GOSPODARKA ZBOZOWA. Vol. 7, No. 6, June 1956. Warszawa.

Source: EEAL LC Vol. 5, No. 11 August 1956

KOWALSKI, A.

Storage of maize p. 31. GOSPODARKA ZROZOWA. Vol. 7, No. 6,
June 1956. Warszawa.

East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 11, August 1956.

KOWALSKI, A.

KOWALSKI, A. The privately owned flour milling industry is preparing for the processing of maize. p. 24. Vol. 7, no. 8, Aug. 1956.
GOSPODARKA ZBOZOWA. Warszawa, Poland.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

KOWALSKI, A.

KOWALSKI, A. In the buckwheat groats mills of the Central Management of the
Privately Owned Flour Mills. p. 30. Vol. 7, no. 10, Oct. 1956.
GOSPODARKA ZBOZOWA. Warszawa, Poland.

SOURCE: East European Accessions List (FEAL) Vol. 6, No. 4--April 1957

KONALEKI, A.

Main tasks of the Scientific-Technical Association of Engineers and Technicians of the Chemical Industry in 1956. p.33

CHEMIA (Stowarzyszenie Inzynierow i Technikow Przemyslu Chemicznego) Katowice
Vol. 9, no. 2, Feb. 1956

So. East European Accessions List Vol. 5, No. 9 September 1956

KWADZAI, A.

Main tasks of the Scientific-Technical Association of Engineers and Technicians in 1996. p. 46

Chin. Ind. J. vol. 12, no. 2, Feb. 1996

Poland

so. ENR. Vol. 12, no. 10 Oct. 1996

KOWALSKI, A.

POLAND / Chemical Technology. Chemical Products. H
Carbohydrates and Their Derivatives.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 68898.

Author : Zagrodzki S., Winiarski W., Szczuka K., Kowalski A.

Inst : Not given.

Title : Automatic Control of Saturation.

Orig Pub: Gaz. cukrown., 1957, 59, No 12, 315-317.

Abstract: Problems pertaining to the automatic control in the saturation operation are presented. A scheme of an automatically controlled saturation gas feed, developed by the authors is reviewed. Its flow rate is regulated by an impulse received from a liquid stream as well as from a pH meter situated in the incoming liquid stream.

Card 1/1

KOWALSKI, A.

The program of activities of the Association of Engineers and Technicians of the Chemical Industry for 1960. p. 16.

PRZEGLAD SPAWAINICTWA (Stowarsyszenie Inzynierow i Technikow Mechankow Polskich) Warszawa, Poland. Vol. 80, No. 49, Dec. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 9, No. 2, Feb. 1959.

Uncl.

KOWALSKI, Adam, mgr., ins.

Industrial branch standards. Normalizacja P 28 no.12:559-562
D '60.

KOWALSKI, Adam

The program of activities of the Association of Engineers and Technicians of the Chemical Industry for the year 1960 in the light of the resolutions of the Chief Technical Organization. Przem chem 39 no.2:62-63 F '60.

1. Prezes Stowarzyszenia Inzynierow i Technikow Przemyslu Chemicznego, Warszawa

P/014/60/039/012/001/007
A221/A126

AUTHOR: Kowalski, Adam

TITLE: The IVth Congress of Polish Technicians

PERIODICAL: Przemysł Chemiczny, v. 39, no. 12, 1960, 737 - 739

TEXT: The author, chairman of the Stowarzyszenie Naukowo Techniczne Inżynierów i Techników w Polsce (Scientific-Technical Association of Engineers and Technicians in Poland), lists several subjects closely linked with important technical problems, which should be discussed at the IVth Congress of Polish Engineers and Technicians. The reason for publishing his ideas beforehand was to give the people concerned enough time for considering the matter before the Congress will meet. In the first part of his article the author discusses briefly the program and achievements of three previous Congresses in 1946, 1952 and 1957. Problems, which in the author's opinion should be discussed and thoroughly elucidated at the congress are the subject of the second part of this article. They are: 1) Modernization and output increase of old plants. The decision as to which plants deserve modernization and to what extent, requires careful considera-

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The IVth Congress of Polish Technicians

P/014/60/039/012/001/007
A221/A126

tion; whether the replacement of old installations in existing buildings by modern equipment will assure maximum space utilization etc. 2) Important element for making the decision in this respect is the evaluation of the technological modernity of the method to be applied; it should be thoroughly examined on the basis of technical and economical indices. The Congress should work out some uniform methods by which the technical conditions in plants could be judged. 3) To decide whether the Polish industry can be modernized relying on own, not always ultra modern scientific research achievements and experience, or whether it will be more practical to exploit other countries' scientific and practical experience and purchase approved modern methods. 4) Revision of the present trend of economy in connection with scientific research progress, availability of local raw materials, trained personnel, profitableness and foreign trade balance. 5) Utilization of coal, lignite and oil: whether to utilize them as fuel or as raw materials for chemical industry. The same applies to the available supply of minerals for phosphoric and potassium fertilizers. 6) Several industrially important semiproducts like soda, carbide, steel, etc., are being sold abroad in order to improve the balance of payment. 7) Project offices

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The IVth Congress of Polish Technicians

P/014/60/039/012/001/007
A221/A126

are preparing documentation on which the respective industrial enterprises carry out construction work. The author suggests that the whole work including the documentation should be contractors' responsibility. 8) The Congress should suggest plans how to obtain more specialists for various branches of industry and also a system of further self-training of technical personnel. 9) Consultation with technical personnel of respective plants in matters of administration and more power of managers will secure better administration of producing plants.

ASSOCIATION: Stowarzyszenie Naukowo Techniczne Inżynierów i Techników
(Association of Engineers and Technicians) in Poland

Card 3/3

KOWALSKI, Adam

Up-to-date activity and further perspectives of the work of the "Association of Polish Chemical Engineers and Technicians." Magy kem lap 16 no.11:490-491 N '61.

1. Lengyel Nepkoztarsasag vegyipari miniszterének elso helyettese, es a Lengyel Vegyeszmernokok es Technikusok Egyesuletenek elnöke.

KOWALSKI, Adam

Impressions from the 33d Congress of Industrial Chemistry. Przem chem
41 no.3:161-163 Mr '62.

KOWALSKI, Adam, mgr inż.

Role of the technical intelligentsia in the growing
importance of chemistry for industry. Przegl techn
84 no.13:5,6 31 Mr '63.

1. Wiceminister Przemysłu Chemicznego i Przewodniczący
Stowarzyszenia Inżynierów i Techników Przemysłu Chemicznego
i Przemysłu Materiałów Budowlanych, Warszawa.

KOWALSKI, Adam, mgr inz.

Second Conference of the Association of Engineers and Technicians of the Chemical Industry and the Association of Engineers and Technicians of Agriculture. Chemik 15 no.3:77-78 Mr '62.

1. Prezes Stowarzyszenia Naukowo-Technicznego Inzynierow i Technikow Przemyslu Chemicznego; Podsekretarz Stanu Ministerstwa Przemyslu Chemicznego, Warszawa.

KONALSKI, Alfred, mgr inz.

Acid cleansing of boilers from fur, rust, and scale. Soap paliw
12 no.8/9:292-295 Ag-S '64.

ACC NR: AP6026362

(A, N)

SOURCE CODE: FO/0082/66/000/005/0037/0047

AUTHOR: Kowalaki, Alfred (

Commander; Master Engineer)

ORG: None

TITLE: Anticorrosion protection of the underwater parts of a ship's hull with the aid of coats of paint

SOURCE: Przegląd morski, no. 5, 1966, 37-47

TOPIC TAGS: anticorrosion agent, corrosion inhibitor, corrosion, corrosion protection, ship, marine equipment, marine engineering, *PAINT*

ABSTRACT: The article discusses the various problems associated with the anticorrosion protection of the submerged parts of the ship's hull and the current and actual use of paints to this end. Painting the ship's hull as an anticorrosion measure can be resorted to independently of the type of sacrificial anodes protection or cathode protection used. These latter two methods have recently proved very effective when used in conjunction with hull painting. The conditions which must prevail before the ship's hull can be painted are detailed and the latest developments in underwater anticorrosion paints are discussed. Of these, the type EKZS-40 paint, which can be laid on at temperatures of from -25° to +35°C, has found wide application. Orig. art. has 1 figure.

SUB CODE: 11,13/

SUBM DATE: none/

ORIG REF: 004/

SOV REF: 002/

Card 1/1

KOWALSKI, Alfred, mgr inż.

The flue tube boiler break down. Energetyka przem 10 no.8:287-
289 Ag '62.

L 04003-67 ENP(j)/T FM

ACC NR: AP6019030

(A, N)

SOURCE CODE: PO/0082/66/000/006/0061/0072

AUTHOR: Kowalski, Alfred (Commander, Master engineer)

ORG: none

TITLE: Selection of coatings for ship structures above the water line

SOURCE: Przegląd morski, no. 6, 1966, 61-72

TOPIC TAGS: protective coating, ship, ship component, paint

ABSTRACT: Compositions and properties of marine coatings, as well as application methods, are discussed to update literature available to marine maintenance personnel. Recommendations include fast curing resin+oil or slow curing oil-based anticorrosion base coatings with two coats of surface coat paint or finish enamel for hull superstructure and bulwarks; a resin-based heat resistant aluminum enamel or silicon aluminum enamel for smokestacks or exhaust ducting; fast curing resin+oil deck paint over two coats of the anticorrosion base coating or antislip epoxy coating over an epoxy base for steel decks; a fast curing chlorinated rubber+resin+plasticizer composition for cement composition decks; two to three coats of deck equipment asphalt coating for anchors, anchor chains and chambers, coal bunkers, and battery housings; a two coat brush application of a bicomponent bituminous epoxy for sanitation and

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L 04003-67

ACC NR: AP6019030

cooling water tanks; two coats of a base epoxy tank coating or three coats of the finish epoxy tank coating for fuel and ballast tank walls; a slow curing nonsolvent epoxy for drinking water tanks; two coats of oil resistant machine enamel over two coats of the hull base coating for engine room machinery and piping; smokestack application for outside surfaces of steam boilers; two coats of the hull base coating or fire resistant cabin base paint with a final coat of fire resistant cabin enamel for walls of engine rooms and non-sleeping areas, the latter application after two base coats of anticorrosion ferric oxide paint for sleeping quarters and other cabins; and a special enamel over the ferric oxide base for refrigerators and pantries. Application techniques are also discussed. Orig. art. has: 1 figure.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 002

Card 2/2 mt

L 41788-66 FSS-2/ENT(1)/EMP(1)/T/ENT(1)/EMP(1) JD/WW/WR/BM
 ACC NR: AP6018755 (A,N) SOURCE CODE: PO/0082/66/000/002/0025/0034

AUTHOR: Kowalski, Alfred (Commander, Master Engineer)

ORG: none

TITLE: Greaseless protection for military equipment and armaments

SOURCE: Przegląd morski, no. 2, 1966, 25-34

TOPIC TAGS: ammunition storage, ordnance, weapon storage, equipment storage technique, corrosion protection, *PROTECTIVE COATING, METAL SURFACE / W5*
PROTECTIVE COATING

ABSTRACT: The report describes a protective method based on the use of anticorrosion coating W5, manufactured in Poland, to maintain in storage parts made of steel, its alloys, zinc and aluminum. Compared to other systems, this system is less expensive, eliminates deconservation procedures, provides better recall readiness, and offers greater protection reliability and for a longer period. Coating W5 has a higher flash point in relation to hydrocarbon solvents. It repels and displaces water from a wetted surface, so that thorough drying of part surfaces is no longer necessary. The coating wets and softens powder deposits within rifle and cannon barrels. It cannot be used for copper parts. Surface preparation is basic to a successful

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L 41786-66

ACC NR: AP6018755

application in any form. Instructions for correct preparation are given. A proposed layout of a coating treatment line, illustrated graphically, provides for sequential unpacking, degreasing, rust removal, solvent rinses, W5 bath and repacking operations. Use of active paper for repacking prolongs the safe maintenance period from one to two and three years. Properties or composition of coating W5 are omitted. Orig. art. has: 2 figures and 1 table.

SUB CODE: 11,19/ SUBM DATE: none/ ORIG REF: 005

Card 2/2

Sp

L 40222-66 EMI(t)/ETI IJP(c) JD

ACC NR: AP6017944

(A)

SOURCE CODE: PO/0082/66/000/001/0047/0055

AUTHOR: Kowalski, Alfred (Commander, Master engineer)

2 /

ORG: None

B

TITLE: Acid rining of marine steam boilers

SOURCE: Przegląd morski, no. 1, 1966, 47-55

TOPIC TAGS: marine engineering, steam boiler, hydrochloric acid, surface scaling, cleaning technique

ABSTRACT: The author outlines the basic principles for using acid to remove scale from the tubes in shipboard steam boilers. A hydrochloric acid solution is ordinarily used which attacks the iron oxide mixed with the layers of boiler scale and bound tightly to the pure iron. The reaction between the iron oxide and hydrochloric acid forms ferrous chloride (FeCl_2) so that the layers of boiler scale on the heating surface loosen and crumble. The process takes place according to the reaction $\text{FeO} + 2\text{HCl} = \text{FeCl}_2 + \text{H}_2\text{O}$. This process is accompanied by the reaction $\text{Fe} + 2\text{HCl} = \text{FeCl}_2 + 2\text{H}$ forming hydrogen bubbles which tear away the layer of scale as they escape. Practical experience has shown that hydrochloric acid is most effective in loosening scale containing calcium and magnesium carbonates. If the scale contains a high concentration of silicates, sulfates or other components, ammonium fluoride (NH_4F) or sodium fluoride

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(NaF) should be added to the hydrochloric acid. The acid concentration must be increased to handle thicker scale layers. A concentration of 2-3% is sufficient to remove a 0.5 mm layer, while a 2.0-2.5 mm layer requires a concentration of 7-8%. The flow-through method for circulating acid through the boiler tubes to rinse them is discussed. Comparative studies have shown that acid cleaning is about 3.5 times as expensive as mechanical cleaning on the average. Operational data show that this type of cleaning may be used a maximum of 9 times, i. e. once before putting the boiler into service and 5-8 times during its entire service life. The limitations of the method are discussed. Orig. art. has: 3 figures, 1 table.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 002/ SOV REF: 003

Card 2/2

KOWALSKI, Andrzej, mgr inz.; BOGUTA, Zdzisław

An attempt to standardize the operational works in power districts. Energetyka Pol 16 no.9:267-269 S '62.

1. Zakłady Energetyczne Okręgu Dolnośląskiego.

KOWALSKI, Andrzej, mgr inż.; BOGUTA, Zdzisław

Operational work organization in the regional electric power network offices. Energetyka Pol 16 no.12:372-375 D '62.

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KOWALSKI, Andrzej, mgr inż.; BOGUTA, Zdzisław

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Board of the Lower Silesian District. Energetyka Pol 17 no.1:
26-29 '63.

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Necessary staff of employees in electric power district offices.
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AUTHOR: Paszkowski, Bohdan; Wolinski, Wieslaw; Adamowicz, Tadeusz; B
 Nowicki, Marian; Stefaniak, Tadeusz; Kowalski, Andrzej

TITLE: He-Ne gas laser of the Warsaw Polytechnic Institute

SOURCE: Przegląd elektroniki, no. 7, 1964, 313-319

TOPIC TAGS: helium neon laser²⁵, laser mode excitation, laser modu-
 lation, laser output analysis, laser material

ABSTRACT: The new He-Ne gas laser of the Katedra Przyrządów Elek-
 tronowych i Techniki Warszawskiej features a steel optical bench
 on which the optical system and laser tube are mounted coaxially.
 An improved arrangement of the eccentric mirrors allows them to be
 inserted from the outside and to be centered in their sockets. Three
 micrometer screws hold them perpendicular to the optical axis of
 the system, and small deflections are made possible by additional

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ACCESSION NR: AP4045929

regulating screws. The resonator mirrors are of crown glass covered with 13 dielectric layers of ZnS and MgF_2 , with a radius of curvature of 1300 mm. At 1.153 microns, the coefficient of reflection was 99.5 and 99.99% and the coefficient of transmission was 0.3 and 0%, without and with a gold coating, respectively. The quartz laser tube, 1150 mm long and 12 mm in diameter, was found to resist power leakage only when the side quartz-glass windows were fused directly to the tube by a torch and cooled gradually. Setting and adjusting of the entire system was effected with the aid of an autocollimator. The medium was a He-Ne mixture at a helium-to-neon pressure ratio of 0.7 to 0.1 mm Hg. Excitation was by means of an external high frequency ($f = 30$ and 40 Mc) or an internal DC field. Maximum tube power is produced by a larger number of electrodes (5--8 per meter), whereas the greatest degree of output power modulation and minimum distortion is achieved with the smallest number of electrodes (3 per meter). The laser radiation power was determined with the bench thermally uncompensated, using a germanium photodiode standardized against a black body. To obtain

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the true radiation power, account must be taken of the damping by the filter-objective system, which amounts to 50.7%. Other laser characteristics are: maximum output rate 12.5 μ w/w, mode stability better than 3 hours, and divergence angle 0.5'.

ASSOCIATION: Katedra Przyrzadow Elektronowych Politechniki Warszawskiej (Department of Electronic Devices, Warsaw Polytechnic); Centralne Laboratorium Aparatury Pomiarowej i Optyki (Central Laboratory of Measurement and Optical Apparatus); Polskie Zaklady Optyczne (Polish Optical Plants)

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ENCL: CO

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TITLE: A method of measuring the angle of divergence of a laser beam 25 7/8

SOURCE: Pomlary, automatyka, kontrola, no. 12, 1964, 556-557

TOPIC TAGS: laser optics, beam divergence, refractive index

ABSTRACT: The paper describes a method of measuring the angle of divergence of a laser beam which is based on the effect the angle of divergence of a beam incident on a lens system has on the distance to the image. The principle of the method is illustrated in Fig. 1 of the Enclosure which shows how the image distance changes with the angle of divergence of the incident beam. The diameter of the spot in the focal plane was taken as the indicator of the measured angle of divergence. The relationship between the

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curve of the instrument (the radius of the observed spot versus the angle of divergence in seconds) for a radiation of $\lambda = 1.15$ microns is shown; a spot radius of about 100 microns

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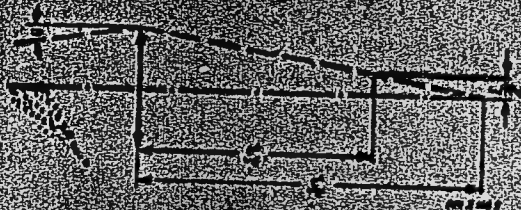


Fig. 1. Diagram showing how the image distance changes with the divergence of the incident beam.

u - Angle of divergence of the beam; S_0 - distance to the image for parallel rays; S_1 - distance to the image for diverging beams; l - diameter of the spot.

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PASZKOWSKI, Bohdan; WOLINSKI, Wieslaw; ADAMOWICZ, Tadeusz; NOWISKI, Marian;
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1. Department of Electronic Instruments, Technical University,
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(DENTAL PROSTHESIS) (PEDODONTIA)

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